

Application No. 09/252,691
Attorney's Docket No. 032796-033

EXHIBIT A

>gi|1787371|gb|AE000213.1|AE000213 Escherichia coli K12 MG1655 section 103 of 400 of
the complete genome
Length = 10959

Score = 85.7 bits (43), Expect = 5e-14
Identities = 73/83 (87%)
Strand = Plus / Minus

Query: 1 gctataatgcggcaattgataacgcctgaaaataccatgacgaaaacttcttttagaaaa 60
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9268 gctataatgcggcaattcataatctctgaaaataccatgcaaaaacttcttttagaaat 9209

Query: 61 caccgggttgagcgattcagctc 83
||||| ||||| ||||| |||||
Sbjct: 9208 caccaggttaagcgattcagctc 9186

Score = 81.8 bits (41), Expect = 8e-13
Identities = 188/237 (79%)
Strand = Plus / Minus

Query: 114 ccagccaaacgcgggtcatactgttcaataaaccctacgatgtattccgcagttaccga 173
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9155 ccagccacgcgtgtatccctgttcaataaaccctacgatgttccgcagttaccga 9096

Query: 174 cgaggccgggcgcagcacgctgaaggactttatcccgatcaggagtcacgcagcggg 233
||| ||||| ||||| ||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9095 tgaagccggacgcaaaacattaaaagaattcatcccggttcagggtgttatgcaggcagg 9036

Query: 234 acgtctggatcgacagcgagggtctgtgtccttaccaatgacggcgtgtccaggc 293
||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 9035 tcgccttgaccgcgatagcgaagggttgctggcgtgaccaataacggcgcgtgcaggc 8976

Query: 294 caggcttactcagccggcaaaacgtaccggaaaaattactatgtcaggttgaagg 350
| | | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8975 gcgtttaaccaggccggtaaacgcacccggaaaaatctattatgtcaggttggagg 8919

Score = 71.9 bits (36), Expect = 8e-10
Identities = 132/164 (80%)
Strand = Plus / Minus

Query: 442 gaacccgagtggtggccgcacccggattcgtgacgtaaatccattccacc 501
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8827 gaacccgcgtggatggccgcggatccaccaattcgtgaacgcaaaagtattccacc 8768

Query: 502 agctggctaaaatcacccttatgaaggcccaacccgcacaggtcaggcgtactgcg 561
||||||| ||||| ||||| ||||| ||||| ||||| |||||
Sbjct: 8767 agctggctgaagatcaccttatataaaggacgtaatcgccaggtgcgcgtacccgc 8708

Query: 562 catgtggctccctaccctgcgactcattcgtacgccatggg 605
||||| ||||| ||| ||||| ||||| ||||| |||||
Sbjct: 8707 catgtggctccctaccctgcgactcattcgtatgcgtatggg 8664

>gi|1651553|dbj|D90748.1|D90748 Escherichia coli genomic DNA. (25.6 - 25.9 min)
Length = 15007

Score = 85.7 bits (43), Expect = 5e-14
Identities = 73/83 (87%)
Strand = Plus / Minus

Query: 1 gctataatgcggcaattgataacgcctgaaaataccatgacgaaaacttcttttagaaaa 60
Sbjct: 11191 gctataatgcggcaattcataatctctgaaaataccatgcaaaaaacttcttttagaaat 11132

Query: 61 caccgggtttagcgattcagtc 83
Sbjct: 11131 caccaggttaagcgattcagtc 11109

Score = 81.8 bits (41), Expect = 8e-13
Identities = 188/237 (79%)
Strand = Plus / Minus

Query: 114 ccagccaacgcgggtcatactgttcaataaaccctacgatgtattgccgcagttaccga 173
Sbjct: 11078 ccagcccacgcgtgtatcctgttcaataaaccctacgatgttccgcagttaccga 11019

Query: 174 cgaggccgggcgcagcacgctgaaggactttatcccgatcaggagactacgcagcggg 233
Sbjct: 11018 tgaagccggacgcaaaacattaaaagaattcatcccggtttaggtgttatgcaggcagg 10959

Query: 234 acgtctggatcgcgacagcgagggtctgtgtcattaccatgacggcgtgtccaggc 293
Sbjct: 10958 tcgccttaccgcgatagcgaagggttgcgtgaccataacggcgcgtgcaggc 10899

Query: 294 caggcttactcagccggcaaacgtaccggaaaaatttactatgtcaggttgaagg 350
Sbjct: 10898 gcgtttaaccagccggtaaacgcaccggaaaaatttattatgtcaggttgaagg 10842

Score = 71.9 bits (36), Expect = 8e-10
Identities = 132/164 (80%)
Strand = Plus / Minus

Query: 442 gaacccgagtggctgtggccgcgaaccggcattcgtagcgtaatccattcctacc 501
Sbjct: 10750 gaaccgcgtggtatggccgcgaatccaccaattcgtagacgcggaaaatccacc 10691

Query: 502 agctggcttaaaatcaccctttagaaggccgcaaccgacaggtcaggcgcatgactg 561
Sbjct: 10690 agctggctgaagatcaccttataatgaaggacgtaatgccaggcgccatgaccgc 10631

Query: 562 catgtggcttcctaccctgcgactcattcgctacgccatggg 605
Sbjct: 10630 catgtggcttccccacgctgcgactgattcgctatgcgtatggg 10587